PATENT COOPERATION TREATY

Translation

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

	nt's or agent's file reference 2220-PCT	FOR FURTHER A	FOR FURTHER ACTION See Form PCT/IPEA			
	ional application No.	International filing d	ate (day/month/year)	Priority date (day/month/year)		
PCT	/JP2004/010094	15.07.200	4	16.07.2003		
	ional Patent Classification (IPC) F1/13357, F21S2			3/00		
Applica SHA	nt RP KABUSHIKI KA	AISHA				
1.	This report is the international under Article 35 and transmitte			this International Preliminary Examining Authority		
2.	This REPORT consists of a tot	al of 6	sheets, inc	luding this cover sheet.		
3.	This report is also accompanied	by ANNEXES, comprising	:			
	a. (sent to the applica	nt and to the International Bi	ureau) a total of 1	sheets, as follows:		
	sheets of the o	lescription, claims and/or dra	awings which have b	een amended and are the basis for this report and/or ee Rule 70.16 and Section 607 of the Administrative		
	sheets which	-		y considers contain an amendment that goes beyond cated in item 4 of Box No. I and the Supplemental		
	b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))					
				, containing a sequence listing and/or tables		
	related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).					
4.	This report contains indications	relating to the following iter	ms:			
	Box No. I Basis	of the report				
	Box No. II Priori	ty				
	Box No. III Non-	establishment of opinion with	n regard to novelty, i	nventive step and industrial applicability		
	Box No. IV Lack	of unity of invention				
	BOX 110. V	oned statement under Article ons and explanations support		novelty, inventive step or industrial applicability;		
	Box No. VI Certa	in documents cited				
	Box No. VII Certa	in defects in the international	application			
	Box No. VIII Certa	in observations on the interna	ational application			
Date of	Date of submission of the demand Date of completion of this report					
			1	1		
Name a	nd mailing address of the IPEA/J	P	Authorized officer			
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International application No.

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Box	No. I	No. I Basis of the report	
1.		With regard to the language , this report is based on the international application in the language indicated under this item.	ge in which it was filed, unless otherwise
		This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of: international search (Rule 12.3 and 23.1(b)) publication of the international application (Rule 12.4)	, , , , , , , , , , , , , , , , , , ,
		international preliminary examination (Rule 55.2 and/or 55.3)	
2.	rece	With regard to the elements of the international application, this report is based on (replace receiving Office in response to an invitation under Article 14 are referred to in this report this report): the international application as originally filed/furnished the description:	
		pages 1-16	as originally filed/furnished
		pages* received by this Authority	on
		pages* received by this Authority	on
	\boxtimes	the claims:	
		nos 3-8	as originally filed/furnished
		nos.* as amended (to	ogether with any statement) under Article 19
		nos.* 1-2 received by this Authority	on 09.05.2005
		nos.* received by this Authority	on
	\boxtimes	the drawings:	
		sheets Fig. 1-10	as originally filed/furnished
		sheets* received by this Authority	
		sheets* received by this Authority	on
		a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence	nce Listing.
3.		The amendments have resulted in the cancellation of:	
		the description, pages	
		the claims, nos.	
		the drawings, sheets/figs	
		the sequence listing (specify):	
		any table(s) related to sequence listing (specify):	
4.		This report has been established as if (some of) the amendments annexed to this report hey have been considered to go beyond the disclosure as filed, as indicated in the Supp	rt and listed below had not been made, since
		the description, pages	
		the claims, nos.	
		the drawings, sheets/figs	
		the sequence listing (specify):	
		any table(s) related to sequence listing (specify):	
*	If ite	If item 4 applies, some or all of those sheets may be marked "superseded."	

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Box		atement under Article 35(2) with regard to novelty, inventive step or industrial applicability; d explanations supporting such statement	
1.	Statement		
	Novelty (N)	Claims _ 1-8	YES
		Claims	NO
	Inventive step (IS)	Claims	YES
		Claims 1-8	
	Industrial applicability		
		Claims	
2	Citations and applementing	(Parl 70.7)	
2.	Citations and explanations		
	Document 1:	,	
		Co.), 20 August 2002; paragraphs 10-11 and	
		57-68; all drawings & WO 2000/020910 A1;	
		page 3, lines 8-31; page 22, line 5 to page	
		28, line 17, all drawings & US 6160663 A &	
		EP 1118032 A	
	Document 2:	WO 2000/057240 A1 (Hitach, Ltd.), 28	
		September 2000; page 10, lines 12-13; fig.	
		1a	
	Document 3:	JP 2003-43222 A (Yuka Denshi Co., Ltd.), 13	
		February 2003; paragraph 35	
	Document 4:	JP 20000-30519 A (Enplas Corp.), 28 January	
		2000; paragraphs 10 and 27-78 and all	
		diagrams	
	Document 5:	JP 2003-177220 A (Dainippon Printing Co.,	
		Ltd.), 27 June 2003; paragraph 25	
	Document 6:	JP 9-506985 A (Minnesota Mining and	
		Manufacturing Co.), 8 July 1997; page 15,	
		lines 10-22, fig. 9 & WO 1995/017692 A1;	
		page 13, lines 5-18; and fig. 19 & US	
		2001/8464 A1 & EP 736188 A	
	Document 7:	JP 10-333131 A (Matsushita Electric	
		Industrial Co., Ltd.), 18 December 1998;	
		Manufacturing Co.), 8 July 1997; page 15, lines 10-22, fig. 9 & WO 1995/017692 A1; page 13, lines 5-18; and fig. 19 & US 2001/8464 A1 & EP 736188 A JP 10-333131 A (Matsushita Electric	

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

paragraph 8 and fig. 14 & US 6219113 B1; column 8, lines 20-22, and fig. 14

Document 8: JP 2002-107513 A (Toppan Printing Co., Ltd.), 10 April 2002; claim 9

Document 9: JP 10-206615 A (Nitto Denko Corp.), 7 August 1998; paragraphs 17-19 and fig. 3

The inventions set forth in claims 1 and 2 do not involve an inventive step in the light of documents 1-3, cited in the international search report, and newly cited documents 8 and 9. Document 1 (paragraphs 10-11) discloses a phase-difference film which has anisotropic coefficients of thermal expansion. In addition document 2 (page 10, lines 12-13) discloses making the coefficients of thermal expansion of adjoining phase difference films substantially equal, and a person skilled in the art could easily apply this in document 1. Moreover, document 3 (paragraph 35) discloses the coefficient of linear thermal expansion as one coefficient of thermal expansion that should be made equal in two optical materials. And documents 8 and 9 disclose a constitution wherein a first optical sheet and second optical sheet are arranged next to one another in a separable state along a line perpendicular to the surface.

The invention set forth in claim 3 does not involve an inventive step in the light of documents 1-3 with document 4, cited in the international search report, and newly cited documents 8 and 9. Document 4 (paragraph 10) discloses a reflective polarizing sheet which has anisotropic coefficients of linear expansion. Document 4 (paragraphs 27-78) also discloses a structure in which an

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

aforementioned reflective polarizing sheet is combined with a prism sheet or light-diffusing sheet. Since document 1 (paragraph 11) discloses reflective polarizing sheets which have anisotropic coefficients of thermal expansion, a person skilled in the art could easily apply an aforementioned structure in document 1.

The invention set forth in claim 4 does not involve an inventive step in the light of documents 1-4 and document 5, cited in the international search report, and newly cited documents 8 and 9. Document 5 (paragraph 25) discloses polycarbonate resins, polystyrene resins and nylon-6 resins as materials for light-diffusing sheets.

The inventions set forth in claims 5 and 6 do not involve an inventive step in the light of documents 1-5 and document 6, cited in the international search report, and newly cited documents 8 and 9. Document 6 (page 15, lines 10-22, and fig. 9) discloses an arrangement of a light source - reflective polarizing element - prism element. And a person skilled in the art could easily apply document 4 with this arrangement in document 1.

The inventions set forth in claims 7 and 8 do not involve an inventive step in the light of documents 1-6 and document 7, cited in the international search report, and newly cited documents 8 and 9. As disclosed in document 7 (paragraph 7 and fig. 14), arranging the transmission axis of a polarizing sheet parallel to the direction of the short side of the liquid crystal panel is known. In addition, document 1 (paragraphs 57-68) discloses an arrangement wherein the optical sheet is

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Box No. V	Reas	oned ions a	stat and	ement u	nder Article 35(2) with regard to novelty, inventive step or industrial applicability; tions supporting such statement
rotate					angle.